18. Discuss the various types of function arguments in Python: required arguments, keyword arguments, default arguments, and variable-length arguments. Provide examples of each type of argument in a function.

19. Explain how to create, access, update, and delete elements in a dictionary in Python. Provide detailed examples for each operation.

20. Describe how to split words from a file's content. Provide an example that reads the content of a file, splits it into individual words, and processes the words.

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NOVEMBER/DECEMBER 2025

23UCS31 — PYTHON PROGRAMMING

Time : Three hours Maximum : 75 marks

Shanmuga Industries Arts & Science College T.V.Malai

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What function is used to display output in Python?

2. What is type conversion in Python?

3. What is the use of the continue statement?

4. What is a for loop in Python?

5. How do you define a function in Python? Provide the syntax?

6. Name two built-in string methods in Python.

7. What is the method to delete an element from a dictionary?

8. How can you access an element in a tuple? Give an example?

9. How do you open a file in Python? Provide an example?

10. How can you find the current file position using file methods?

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Describe the built-in data types in Python.

Or

(b) What are the input and output statement used in python?

12. (a) Describe the function of while loop.

Or

(b) What is the purpose of the break and pass statement in python?

13. (a) What are string operations in Python? Provide examples of common string operations.

Or

(b) How do you define your own module in Python?

14. (a) Compare lists and tuples in Python.

Or

(b) Describe how to create, access, and update elements in a tuple with an example.

15. (a) Describe the function of read()readlines() method with an example.

Or

(b) Write short notes on append() function in python.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss the various types of operators available in Python and give examples of how they are used in expressions.

17. Discuss the working of selection statements in Python with detailed explanations of if, if-else, and if-elif-else statements. Provide appropriate code examples demonstrating each conditional structure.

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